

Arpit Bansal

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SKILLS

- Core Development – Java, Spring Boot, Helidon MP, Redis, MongoDB, RabbitMQ, Oracle DB
- Devops & Observability – Docker, Kubernetes, Helm, Prometheus, Open Telemetry
- Foundation – Data Structures & Algorithm, Restful API Design, Microservices, System Design (HLD, LLD)

WORK EXPERIENCE

- Oracle: Application Developer** 06/2023 – Present
- **End-to-End Observability:** Reduced incident diagnosis time by 90-95% by implementing end-to-end observability using Prometheus for metrics and Open Telemetry for distributed tracing across services.
 - **Authored and deployed a reusable Helidon library** to standardize logging patterns and MDC context across multiple services, improving code maintainability and debugging consistency for the entire team.
 - **API Provisioning Engine:** Developed a **high-throughput** provisioning **API** that ingests and validates complex payload against 20+ parameters, achieving a 99.8% success rate by applying robust **data enrichment and validation rules**.
 - **Containerized Development & Debugging:** Authored production-grade Helm charts for a core microservice, incorporating robust liveness and readiness probes to ensure high availability and automated recovery on Kubernetes.
 - **Multi-Tenancy Migration:** Engineered a framework for a seamless **multi-tenancy migration, successfully moving 3+ services with zero downtime** by handling complex inter-tenant communication, multiple authentication schemes and different architectures.
 - **Proactively identified and remediated security vulnerabilities** by performing targeted dependency updates, base image hardening, and secure code fixes, strengthening the overall security posture of the application.

- Oracle: Project Intern** 06/2022 – 08/2022
- Developed a full-stack, high-throughput streaming application: backend built on Helidon MP with Kafka for real-time ingestion and aggregation (capable of processing 10,000+ events per minute), and a dynamic JavaScript/DOM-driven frontend for visualization.
 - Engineered data pipelines to aggregate data into meaningful statistics and integrated interactive charts and dashboards on the UI to monitor workflow stats.

PROJECTS

- AI-Powered Document Q&A System: [<https://github.com/arpitkb/docu-mind-backend>] 2024 - 2025
- Architected and developed a secure, **multi-service backend**, utilizing Oracle DB to manage user profiles and document metadata for an **AI-powered system** that allows users to upload files and ask natural language questions about their content.
 - Engineered a robust, async processing pipeline using **RabbitMQ**. The pipeline sends documents to the **Google Gemini multimodal API** for intelligent analysis, converting unstructured files into structured data.
 - Built a Q&A engine using a **Retrieval-Augmented Generation (RAG)** pattern. It generates vector embeddings via the Gemini and stores them in Chroma DB to enable user-specific **semantic searching**.

EDUCATION

- National Institute of Technology, Warangal** 2019 – 2023
B.Tech. Chemical Engineering